

April 20 - April 26, 2001

The Terra spacecraft is operating in Nominal Mode. All instruments are functioning well in Science Mode.

On April 21, (DOY 111) at 12:18:05z, a Solid State Recorder (SSR) command error occurred, yet the Science Playback appeared to be nominal. All subsequent Playbacks have been nominal. This is most likely the result of a Single Event Upset-induced bit flip on the Bus Data Unit, as has been experienced before. An investigation is ongoing.

The scheduling process for Terra support during the past week has been more extensive than during any previous shuttle mission. The schedulers in the NASA Control Center and the Terra Mission Operations Center have worked diligently to resolve scheduling issues. To date, there has been only one data loss. A post-mission review will be conducted with the Tracking and Data Relay Satellite System (TDRSS) network to understand what changed for this mission, and to work on steps to minimize the impacts in the future.

On April 27 (DOY 117), an unrecoverable data loss occurred as a result of a schedule bump by the Space Shuttle. Reconfiguration by Terra to support an EPGN (Alaska) contact was not successful and an estimated 448,409 CADUs of MODIS data were lost.

Three High Gain Motor Drive Assembly radiation-induced resets were experienced in this reporting period with no net unrecoverable data loss.

No MODIS Roll Maneuver for calibration are scheduled for April or May. MISR is taking part in the ACE-Asia campaign during April.

Terra Command and Data Handling continues to operate nominally. A Master Oscillator Frequency Adjust was performed on April 26 (DOY 116).